

ABSTRACT

An electronic price label (ESL) system with communication error correction is described. In one aspect, the ESL system automatically detects ESL communication errors which may result in incorrect data in the ESL's registers, and then automatically takes corrective action to update the ESL's memory with the correct data. In one aspect, the host computer transmits a register update message to an ESL. If a negative acknowledgement message or no response is received, then the host computer may resend the register update message, or take other such action. If the host computer receives a positive acknowledgment message, or what appears to be a positive acknowledgement message, the host computer then automatically transmits one or more messages to the ESL to verify the contents of the ESL's registers to ensure that a positive acknowledgement was actually transmitted.